| · | Application No. | Applicant(s) | |
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| | 09/644,068 | SHIBUYA ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | Thomas D. Lee | 2624 | |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31 | (OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is | n this application. If not included unication will be mailed in due course. THIS | |
| 1. X This communication is responsive to amendment filed Au | gust 4, 2004. | | |
| 2. 🛮 The allowed claim(s) is/are <u>1-14</u> . | | | |
| 3. \boxtimes The drawings filed on <u>23 August 2000</u> are accepted by the | e Examiner. | | |
| 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | e been received. e been received in Application | on No | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | e a reply complying with the requirements | |
| A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which give | nitted. Note the attached EX es reason(s) why the oath o | AMINER'S AMENDMENT or NOTICE OF r declaration is deficient. | |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mu | st be submitted. | | |
| (a) 🗌 including changes required by the Notice of Draftsper | son's Patent Drawing Review | w (PTO-948) attached | |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date | _· | | |
| (b) including changes required by the attached Examiner Paper No./Mail Date | 's Amendment / Comment o | r in the Office action of | |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | 1.84(c)) should be written on t | he drawings in the front (not the back) of FR 1.121(d). | |
| DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT | osit of BIOLOGICAL MAT FOR THE DEPOSIT OF BIO | ERIAL must be submitted. Note the OLOGICAL MATERIAL. | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5 D Netter of | (| |
| Notice of References Cled (F10-692) Datice of Draftperson's Patent Drawing Review (PT0-948) | | formal Patent Application (PTO-152) | |
| Information Disclosure Statements (PTO-1449 or PTO/SB/I | Paper No. | Interview Summary (PTO-413), Paper No./Mail Date Examiner's Amendment/Comment | |
| Paper No./Mail Date | · — | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ⊠ Examiner's 9. ☐ Other | Statement of Reasons for Allowance | |
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Application/Control Number: 09/644,068

Art Unit: 2624

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-14 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: As set forth on page 3 of the prior Office action mailed May 5, 2004, no prior art has been found to disclose or suggest applicant's PWM correspondence table associating a PWM tone value to a corresponding laser pulse pattern, wherein said PWM tone value, when regarded as a bit sequence, comprises a first bit region having a value determined depending only on a difference value between an input tone value and a threshold value, and a second bit region having a value determined depending only on a value represented by said threshold value excluding four or five bits thereof, as recited in base claim 1. Newly added base claim 11 recited a similar limitation, and is thus allowable for similar reasons. As for base claim 4, no prior art has been found to disclose or suggest said PWM tone value, "wherein said PWM tone value (p), before being added with said address offset value (p0), depends on a difference (Δn=ni-nc) between said tone value (ni) of said input pixel and said threshold value (nc), and said address offset value (p0) to be added to said PWM tone value (p) is a value which is switched on the basis of a comparison of said threshold value (nc) with said threshold value (Θ), or a comparison of said tone value (ni) of said input pixel with said threshold value (Θ)."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 2624

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas D. Lee whose telephone number is (703) 305-4870. The examiner can normally be reached on Monday-Friday (7:30-5:00), alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on (703) 308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas D. Lee Primary Examiner Art Unit 2624

tdl November 8, 2004